

SCULLY, SCOTT, MURPHY & PRESSER
400 GARDEN CITY PLAZA
GARDEN CITY, NEW YORK 11530

Telephone: (516) 742-4343

Facsimile: (516) 742-4366

E-Mail: intprop@ssmp.com

FILE COPY
RECEIVED

APR 24 2002

TECH CENTER 1600/2900

FACSIMILE TRANSMISSION

To: U. S. Patent and Trademark Office Attention: Corrected Filing Receipt
Date: February 20, 2002
Fax # 703-308-7751 Pages 3
From: SCULLY, SCOTT, MURPHY & PRESSER

Re: Marilyn A. Anderson, et al.
U.S. Patent Appln. No. 09/812,502
A PROTEINASE INHIBITOR, PRECURSOR
THEREOF AND GENETIC SEQUENCES
ENCODING SAME
Our Docket: 9748BZ

COMMENTS:

The Filing Receipt for the above-identified patent application has the date on the Divisional incorrect and also the total claims and independent claims are incorrect. It should read:

DOMESTIC PRIORITY DATA AS CLAIMED BY APPLICANT:

**WHICH IS A DIV OF 08/454,295 12/16/1993 Pat 6,031,087, and Total claims 8,
Independent Claims 2.**

Please send to us a corrected Filing Receipt with the information as it is shown on the pages to follow.

Thank you.

If there are any problems concerning this facsimile, please call (516) 742-4343 and ask for Rosemarie at Ext.596.

CONFIDENTIALITY: The documents accompanying this facsimile transmission may contain information which is either confidential or legally privileged and is intended only for the authorized use of the individual or entity named above without right of publication or republication, dissemination or disclosure except as expressly set forth or established by course of dealing. All rights are reserved. If you are not the intended recipient, you are hereby notified that any disclosure, copying, distribution or use of the contents of this facsimile is prohibited. If you received this transmission in error, please notify us immediately by telephone to arrange for return of the documents.

RECEIVED

P.02/03

APR 24 2002

Page 1 of 2



UNITED STATES PATENT AND TRADEMARK OFFICE

TECH CENTER 1600/2900

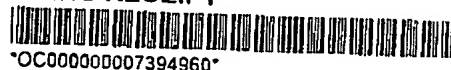
 COMMISSIONER FOR PATENTS
 UNITED STATES PATENT AND TRADEMARK OFFICE
 WASHINGTON, D.C. 20231
 www.uspto.gov

APPLICATION NUMBER	FILING DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	DRAWINGS	TOT CLAIMS	IND CLAIMS
09/812,502	03/20/2001	1652	710	9748BZ	20	4	1

CONFIRMATION NO. 7221

 SCULLY, SCOTT, MURPHY & PRESSER
 400 Garden City Plaza
 Garden City, NY 11530

FILING RECEIPT



OC00000007394960

Date Mailed: 01/30/2002

Receipt is acknowledged of this nonprovisional Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Customer Service Center. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

 Marilyn Anne Anderson, Keilor, AUSTRALIA;
 Angela Hilary Atkinson, Montrose, AUSTRALIA;
 Robyn Louise Heath, Williamstown, AUSTRALIA;
 Adrienne Elizabeth Clarke, Parkville, AUSTRALIA;

Domestic Priority data as claimed by applicant

 THIS APPLICATION IS A CON OF 09/431,500 11/01/1999 PAT 6,261,821
 WHICH IS A DIV OF 08/454,295 [09/01/1995] PAT 6,031,087

Foreign Applications

AUSTRALIA PL 6399/92 12/16/1992

 Should Read:
 12/16/1993

If Required, Foreign Filing License Granted 01/30/2002

Projected Publication Date: To Be Determined - pending completion of Corrected Papers

Non-Publication Request: No

Early Publication Request: No

Title

Proteinase inhibitor, precursor thereof and genetic sequences encoding same

Preliminary Class



US006031087A

United States Patent [19]

Anderson et al.

[11] Patent Number: 6,031,087

[45] Date of Patent: Feb. 29, 2000

[54] **PROTEINASE INHIBITOR, PRECURSOR
THEREOF AND GENETIC SEQUENCES
ENCODING SAME**

[75] Inventors: Marilyn Anne Anderson, Kailor;
Angela Hilary Atkinson, Montrose;
Robyn Louise Heath, Williamstown;
Adrienne Elizabeth Clarke, Parkville,
all of Australia

[73] Assignee: The University of Melbourne,
Australia

[21] Appl. No.: 08/454,295

[22] PCT Filed: Dec. 16, 1993

[86] PCT No.: PCT/AU93/00689

§ 371 Date: Sep. 1, 1995

§ 102(e) Date: Sep. 1, 1995

[87] PCT Pub. No.: WO94/13810

PCT Pub. Date: Jun. 23, 1994

[30] Foreign Application Priority Data

Dec. 16, 1992 [AU] Australia PL6399/92

[51] Int. Cl.⁷ C07H 21/04; C12N 5/04;
C12N 9/76; C12N 9/50

[52] U.S. Cl. 536/23.2; 435/213; 435/219;
435/69.1; 435/252.3; 435/320.1; 800/279;
536/23.6

[58] Field of Search 435/213, 219;
435/69.1, 252.3, 320.1; 536/23.2, 23.6;
800/279

[56] References Cited

PUBLICATIONS

- Suggs et al. PNAS 78(11):6613-17, 1981.
Bryant et al. Biochemistry 15(16): 3418-23, 1976.
"We scanned the GenBank (1) data bank for sequence
similarities and found one sequence (2), GenBank accession
No. Z12753, which showed 9.8% similarity . . ." Choi et al.
Haenguk Saenghwahakhoe Chi. 23: 214-220, 1990.

Primary Examiner—Ponnathapu Achutamurthy

Assistant Examiner—Tekchand Saidha

Attorney, Agent, or Firm—Scully, Scott, Murphy & Presser

[57] **ABSTRACT**

The present invention relates generally to proteinase inhibitors, a precursor thereof and to genetic sequences encoding same. More particularly, the present invention relates to a nucleic acid molecule comprising a sequence of nucleotides which encodes or is complementary to a sequence which encodes a type II serine proteinase inhibitor (PI) precursor from a plant wherein said precursor comprises at least three PI monomers and wherein at least one of said monomers has a chymotrypsin specific site and at least one other of said monomers has a trypsin specific site.

7 Claims, 21 Drawing Sheets